AIM: To implement FCFS Disk Scheduling Algorithm

CODE:

import java.io.\*;

import java.util.\*;

public class DiskH

{

public static void main(String[] args)

{

Scanner scan=new Scanner(System.in);

System.out.println("Enter the total number of seeks:");

int n=Integer.parseInt(scan.nextLine());

int[] arr=new int[n];

System.out.println("Enter the tracks to be visited:");

for(int i=0;i<n;i++)

arr[i]=Integer.parseInt(scan.nextLine());

System.out.println("Enter the initial head position:");

int head=Integer.parseInt(scan.nextLine());

int sum=0,diff=0;

for(int i=0;i<n;i++)

{

diff=0;

diff=Math.abs(arr[i]-head);

sum+=diff;

head=arr[i];

}

System.out.println("Total seek time:" +sum);

System.out.println("Average seek time:" + (sum/n));

}

}

OUTPUT:

students@celab6-17:~/Desktop$ java DiskH

Enter the total number of seeks:

8

Enter the tracks to be visited:

98

183

37

122

14

124

65

67

Enter the initial head position:

53

Total seek time:640

Average seek time:80